
Product Name: KD-Validated RAD23A Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00951**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,M
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 39.6kDa

Antigen Information

Gene Name	RAD23A RAD23 Homolog A, Nucleotide Excision Repair Protein; HHR23A; UV Excision Repair Protein
Alternative Names	RAD23 Homolog A; RAD23, Yeast Homolog, A; MGC111083; HR23A; RAD23 (S. Cerevisiae) Homolog A; RAD23 Homolog A (S. Cerevisiae)
Gene ID	5886.0
SwissProt ID	P54725
Immunogen	A synthesized peptide derived from human RAD23A

Background

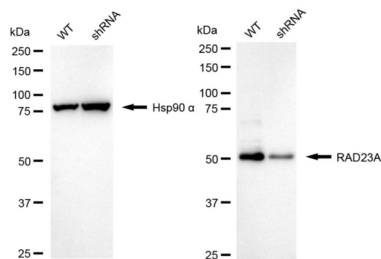
The protein encoded by this gene is one of two human homologs of *Saccharomyces cerevisiae* Rad23, a protein involved in nucleotide excision repair. Proteins in this family have a modular domain structure consisting of an ubiquitin-like domain (Ubl),

ubiquitin-associated domain 1 (UbA1), XPC-binding domain and UbA2. The protein encoded by this gene plays an important role in nucleotide excision repair and also in delivery of polyubiquitinated proteins to the proteasome. Alternative splicing results in multiple transcript variants encoding multiple isoforms. [provided by RefSeq, Jun 2012]

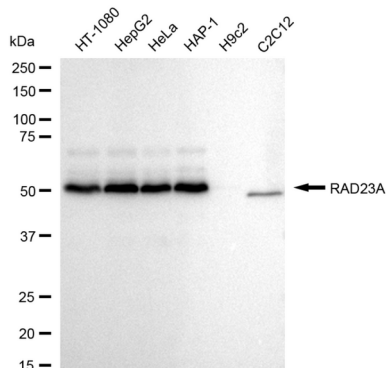
Research Area

Epigenetics and Nuclear Signaling

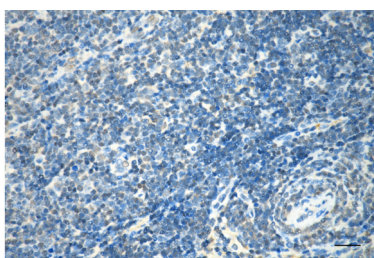
Image Data



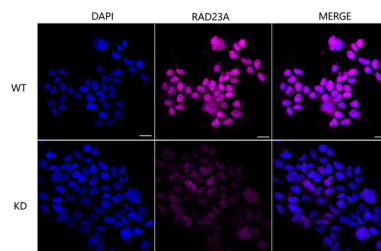
Western blotting analysis using RAD23A antibody (KVA00951). RAD23A expression in wild type (WT) and RAD23A shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with RAD23A antibody (KVA00951, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



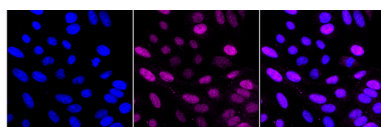
Western blotting analysis using RAD23A antibody (KVA00951). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with RAD23A antibody (KVA00951, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



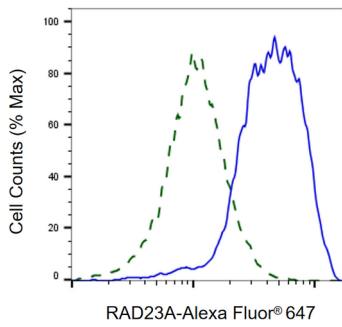
Immunohistochemistry was performed on paraffin-embedded human lymphoma using RAD23A antibody (KVA00951, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



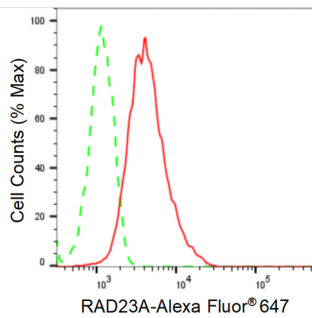
Immunocytochemical staining of HeLa cells using RAD23A antibody (KVA00951, 1:1,000), Top panel: wild-type (WT); Bottom panel: RAD23A shRNA knockdown (KD). Nuclei were stained blue with DAPI; RAD23A was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with RAD23A antibody (KVA00951, 1:1,000). Nuclei were stained blue with DAPI; RAD23A was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of RAD23A knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with RAD23A antibody (KVA00951, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of RAD23A expression in HepG2 cells using RAD23A antibody (KVA00951, 1:2,000). Green, isotype control; red, RAD23A.